88888888888 888888888888 888888888888	00000000 00000000 00000000	00000000 00000000 00000000		\$
BBB <b>BBB</b>	000 000	000 000	TTT	SSS
BBB BBB	000 000	000 000	TTŢ	SSS
BBB <b>B</b> BB	000 000	000 000	ŢŢŢ	ŠŠŠ
BBB <b>B</b> BB	000 000	000 000	TTT	SSS
BBB	000 000	000 000	TTT	ŠSS
<b>BBB BBB</b>	000 000	000 000	TTT	SSS
BBBBBBBBBB <b>B</b> B	000 000	000 000	TTT	SSSSSSSS
<b>B</b> BBBBBBBB <b>B</b> B	000 000	000 000	TTT	SSSSSSSS
BBBBBBBBBBBB	000 000	000 000	TTT	SSSSSSSS
888 B88	000 000	000 600	TTT	SSS
BBB BBB	000 000	000 000	TTT	ŠSS
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBB BBB	000 000	000 000	TTT	ŠŠŠ
BBBBBBBBBBBB	00000000	00000000	ŤŤŤ	SSSSSSSSSS
BBBBBBBBBBBB	00000000	00000000	ŤŤŤ	SSSSSSSSSS
8888888888	00000000	00000000	ŤŤŤ	\$\$\$\$\$\$\$\$\$\$\$\$\$

RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	AAAAAA AA AA AA AA AA AA AA AA AA AA AAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	MM MM MMMM MMMM MMMM MMMMM MM MM MM MM MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		•••
		\$							

10

11 \*

14 ;\*

15 :\*

16 ;\*

17 :\*

18 :\*

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15-SEP-1984 23:59:11 VAX/VMS Macro V04-00 (BOOTS.SRC]READPRMPT.MAR;1

\*

Page (1)

READPRMPT - READ AND PROMPT ROUTINE .TITLE . IDENT 'V04-000'

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## : FACILITY: 31 32 33

## ABSTRACT:

This module contains a routine (BOO\$READPROMPT) which writes a prompt line and reads a line of input from the console terminal using QIOs. Either writing the prompt line or reading the input line may be bypassed.

ENVIRONMENT: User mode

AUTHOR: STEVE BECKHARDT, CREATION DATE: 27-Sep-1979

MODIFIED BY:

V03-002 KDM0090 Kathleen D. Morse 01-Dec-1983

Make psect word aligned.

V03-001 JLV0134 31-Dec-1981 Jake VanNoy Add routine RIO\$OUTPUT\_LINE.

0000

0000 0000 0000 0000 0019 00000100 0019 00000021 0010 0021 00000121 0021 0121

00000000

82 83 84 RIO\$ 85 86 87

RIOSAB\_OUTBUF::
.LONG
.LONG
RIOSAB\_BUFFER::
.BLKB

G 256 G RIO\$AB\_BUFFER R:: B 256

; Buffer

; Descriptor
; Buffer pointer

(2)

Page

.PSECT BOOSREADPROMPT.RD.NOWRT.EXE

VAX/VMS Macro V04-00

Size of prompt buffer

Page

(3)

04 BC

```
- READ AND PROMPT ROUTINE 15-SEP-1984 23:59:11 BOO$READPROMPT - Prompt and read input s 4-SEP-1984 23:05:24
                                                                                    [BOOTS.SRC]READPRMPT.MAR:1
                                          .SBTTL BOOSREADPROMPT - Prompt and read input string
                     0000
                              90
                                ; ++
                             91
                     0000
                                  Functional Description:
                             93
93
                     0000
                                         BOOSREADPROMPT outputs the specified ASCIZ prompt string on the
                     0000
                                         console terminal then checks the count of characters to be read.
                     0000
                              94
                                         If zero it exits, otherwise it reads the console terminal until
                              95
                     0000
                                          either a carriage return is encountered or the character count
                             96
97
                     0000
                                          is satisfied. The specified buffer is filled with an ASCIC
                     0000
                                          string containing the characters read but not including the
                     0000
                              98
                                         terminating carriage return.
                     0000
                              99
                     ŎŎŎŎ
                                   Calling Sequence:
                     ŎŎŎŎ
                             101
                                          CALLG ARGLIST, BOOSREADPROMPT
                     ŎŎŎŎ
                            102
                     0000
                                   Input Parameters:
                     0000
                            104
                                         PROMPT(AP) - Address of ASCIZ prompt string
                     0000
                            105
          00000004
                                          PROMPT = 4
                     0000
                            106
                            107;
                     0000
                                          SIZE(AP)
                                                          Maximum length of input string
                     0000
                            108
                                          SIZE
          80000000
                                                = 8
                     0000
                            109
                                                           Note: if size is zero, then nothing is read
                     0000
                            110
                                                                  and only the prompt string is written.
                     0000
                            111
                                         BUF (AP)
                                                          Address of input buffer
          0000000C
                     0000
                                                  = 12
                                         BUF
                     0000
                     0000
                            115
                                   Output Parameters:
                     0000
                            116
                                         RO - Completion status code
                     0000
                            117
                     0000
                                         Buffer located by BUF(AP) will be filled with the string
                            119
                     0000
                                         read as an ASCIC string.
                     0000
                            120
                     0000
                     0000
                     0000
                                BOOSREADPROMPT::
              0004
                            124
                                                  ^M<R2>
                     0000
                                          .WORD
                            125
                     0002
                             126
     0008'CF
                     0002
                                         TSTW
                                                  W^CHANNEL
                                                                            ; Channel assigned yet?
                12
                     0006
           18
                                         BNEQ
                                                  10$
                                                           CHAN = W^CHANNEL,- ; No, assign it
                     0008
                             128
                                         $ASSIGN_S
                             129
                                                           DEVNAM = DEVNAM_DSC,-
                     0008
                            130
                     0008
                                                                            ; Allow access from user mode
                                                           ACMODE = #3
       73 50
                E9
                     001D
                            131
                                         BLBC
                                                  RO.90$
                                                                            : Error
                            132
133 10$:
                     0020
FFFF 8F
          00
                3A
                     0020
                                         LOCC
                                                  #0, #^XFFFF, aPROMPT(AP)
                                                                              Locate end of prompt string
       04 AC
                (5
                     0027
                            134
                                         SUBL
                                                  PROMPT(AP),R1
                                                                              R1 = size of prompt string
                DQ
13
  50
                            135
       80
          AC
                     002B
                                         MOVL
                                                  SIZE(AP),RO
                                                                              RO = size of input buffer
           38
                     002F
                            136
                                         BEQL
                                                  20$
                                                                              No input buffer
  52
       OC AC
                D0
                     0031
                            137
                                                  BUF (AP), R2
                                         MOVL
                                                                            : R2 = address of input buffer
                     0035
                            138
                     0035
                            139
                                         SQIOW_S CHAN = W^CHANNEL,-
                                                                              Prompt and read
                     0035
                            140
                                                  FUNC = #10$ READPROMPT,-
                     0035
                            141
                                                  IOSB = W^IOSTBLK,-
                            142
143
                     0035
                                                  P1 = 1(R2), -
                                                                              Address of input buffer
                                                  P2 = R0.-
                     0035
                                                                              Size of input buffer
                                                  P5 = PROMPT(AP)_-
                     0035
                            144
                                                                              Address of prompt buffer
```

P6 = R1

145

0035

50 62

50

**E9** 3C

008B

008E

0093

0093

0094

156

157

158 159 90\$:

160

BLBC

RET

RO.90\$

MOVZWL WATOSTBLK, RO

05 50

0000°CF

; Get I/O status block

```
15-SEP-1984 23:59:11 VAX/VMS Macro V04-00 (B00TS.SRC]READPRMPT.MAR;1
                        - READ AND PROMPT ROUTINE
                                                                                                                                                            (3)
                        RIOSOUTPUT_LINE - Output one line
                                        162 .SBTTL RIO$OUTPUT_LINE - Output one line 163
                               0094
                                        164;+
165; This routine is in RMSCONIO for SYSGEN, is used here to map STASYSGEN
166; calls to this routine into calls to BOO$READPROMPT.
167;
                               0094
                                        168 : Inputs:
                               0094
                                        169 :
170 :
                                                         RIO$GW_OUTLEN - length of string to output
RIO$AB_BUFFER - buffer to output
                               0094
                               0094
                               0094
                                        171 ;-
                               0094
                                        172
                                        173 RIOSOUTPUT_LINE::
                               0094
0094
0094
0097
009E
                                        174
                         7D
3C
9E
9E
00
      7E 51
00000017'EF
                                        175
                                                         MOVQ
                                                                    R1,-(SP)
                                                                                                      Save R1,R2
Set length
                                                                   RIOSGW_OUTLEN,R1
RIOSAB_BUFFER,R2
(R2)[RT],R1
51
52
                                        176
                                                         MOVZWL
      00000021 EF
                                                         MOVAB
                                        177
                                                                                                      Set address
                               00A5
00A9
                6241
                                        178
                                                                                                       Set address of end of string
       00000A0D 8F
61
                                        179
                                                         11JVL
                                                                    #^X00000A0D,(R1)
                                                                                                    ; Set CR, LF, zero byte at end
                               0080
                                        180
                   7E
52
03
                         70
                               00B0
                                         181
                                                         CLRQ
                                                                    -(SP)
                                                                                                    ; Null read buffer
                                                                   R2
#3,L^BOO$READPROMPT
                               00B2
00B4
                                        182
183
                                                         PUSHL
                                                                                                      Address of string
                         FB
FFFFFF45 EF
                                                         CALLS
                                                                                                    ; Output string
                               00BB
                                        184
185
                   8E
                               00BB
            51
                                                                                                    ; Restore R1,R2
                                                         MOVQ
                                                                    (SP)+R1
                               ÖÖBE
                                        186
187
                                                         RSB
                                                                                                    ; Return
                               00BF
                               OOBF
```

G 10

188

.END

```
H 10
READPRMPT
                                                                                  15-SEP-1984 23:59:11
4-SEP-1984 23:05:24
                                    - READ AND PROMPT ROUTINE
                                                                                                           VAX/VMS Macro VO4-00
                                                                                                                                           Page
Symbol table
                                                                                                           [BOOTS.SRC]READPRMPT.MAR: 1
                 = 00000001
SST1
BOOSREADPROMPT
                   00000000 RG
                                    02
BUF
                 = 00000000
CHANNEL
                   00000008 R
                                    01
DEVNAM_DSC
                   0000000A R
                                    Ŏ1
                                    05
05
10$ READPROMPT
                   *******
105 WRITEVBLK
                   *******
IOSTBLK
                   00000000 R
                                    ŎĪ
PROMPT
                 = 00000004
RIOSAB_BUFFER
RIOSAB_OUTBUF
RIOSGW_OUTLEN
RIOSOUTPUT_LINE
                   00000021 RG
                                    01
                   00000019 RG
00000017 RG
                                    Ŏĺ
                                    ŎÍ
                   00000094 RG
                                    Ŏ2
                 = 00000008
SIZE
SYS$ASSIGN
                                    02
SYSSOIOW
                   ******
                                                        Psect synopsis!
PSECT name
                                    Allocation
                                                           PSECT No.
                                                                       Attributes
                                                          00 (
                                                                 0.)
   ABS
                                    00000000
                                                     0.)
                                                                       NOPIC
                                                                                       CON
                                                                                              ABS
                                                                                USR
                                                                                                    LCL NOSHR NOEXE NORD
                                                                                                                             NOWRT NOVEC BYTE
BOOSSYSGEN
                                    00000121
                                                   289.)
                                                          01
                                                                       NOPIC
                                                                                       CON
                                                                                              REL
                                                                 1.)
                                                                                USR
                                                                                                    LCL NOSHR
                                                                                                                  EXE
                                                                                                                         RD
                                                                                                                                WRT NOVEC WORD
BOOSREADPROMPT
                                                   191.)
                                                                 2.)
                                    000000BF
                                                           02 (
                                                                       NOPIC
                                                                                       CON
                                                                                              REL
                                                                                USR
                                                                                                    LCL NOSHR
                                                                                                                  EXE
                                                                                                                         RD
                                                                                                                             NOWRT NOVEC BYTE
                                                   ! Performance indicators
Phase
                            Page faults
                                             CPU Time
                                                              Elapsed Time
Initialization
                                     30
                                             00:00:00.09
                                                              00:00:00.79
Command processing
                                    128
                                             00:00:00.65
                                                              00:00:02.88
Pass 1
                                    129
                                             00:00:01.08
                                                              00:00:03.45
Symbol table sort
                                      0
                                             00:00:00.01
                                                              00:00:00.01
Pass 2
                                                              00:00:01.08
                                     48
                                             00:00:00.45
```

(<del>3</del>)

Symbol table output Psect synopsis output 00:00:00.02 00:00:00.02 Š 00:00:00.01 00:00:00.02 Cross-reference output 00:00:00.00 00:00:00.00 Assembler run totals 342 00:00:02.31 00:00:08.25

The working set limit was 900 pages.
4406 by(es (9 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 16 non-local and 3 local symbols.
188 source lines were read in Pass 1, producing 13 object records in Pass 2. 6 pages of virtual memory were used to define 8 macros.

READPRMPT VAX-11 Macro Run Statistics

- READ AND PROMPT ROUTINE

15-SEP-1984 23:59:11 VAX/VMS Macro V04-00 Page 7 4-SEP-1984 23:05:24 [BOOTS.SRC]READPRMPT.MAR;1 (3)

Macro library statistics !

Macro library name

\_\$255\$DUA28:[B00TS.0BJ]B00TS.MLB;1

\_\$255\$DUA28:[SYS.0BJ]LIB.MLB;1

\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

0

6

70 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:READPRMPT/OBJ=OBJ\$:READPRMPT MSRC\$:READPRMPT/UPDATE=(ENH\$:READPRMPT)+EXECML\$/LIB+LIB\$:BOOTS.MLB/LIB

0039 AH-BT13A-SE

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